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*Frank C. Eisenschenk*

Frank C. Eisenschenk, Ph.D., Patent Attorney

# INFORMATION DISCLOSURE STATEMENT

Examining Group 1652  
Patent Application  
Docket No. UF-T398XC1  
Serial No. 10/531,351

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1652  
Applicants : Monique Royer, Dean W. Gabriel, Roger Frutos, Philippe Rott  
Serial No. : 10/531,351  
Filed : April 15, 2005  
Conf. No. : 6228  
For : Complete Biosynthetic Gene Set for Synthesis of Polyketide Antibiotics,  
Including the Albicidin Family, Resistance Genes, and Uses Thereof

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## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed. However, Applicants have not submitted a copy of the U.S. patent cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.



Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,

Frank C. Eisenschenk, Ph.D.

Patent Attorney

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FCE/gyl

Attachments: Form PTO/SB/08; copies of references cited therein.



PTO/SB/08A (08-03)

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/531,351	
			Filing Date	April 15, 2005	
			First Named Inventor	Monique Royer	
			Art Unit	1652	
Examiner Name					
Sheet	1	of	5	Attorney Docket Number	UF-T398XC1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	U1	US-4,525,354	06-25-1985	Birch <i>et al.</i>	All
	U2	US-			
	U3	US-			
	U4	US-			
	U5	US-			
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			

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		Country Code <sup>3</sup>	Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)			
	F1		WO 02/024736 A1	03-28-2002	The University of Queensland	All
	F2					
	F3					
	F4					
	F5					
	F6					
	F7					

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	R1	ALTSCHUL, S. F. <i>et al.</i> "Gapped BLAST and PSI-BLAST: A New Generation of Protein Database Search Programs", <i>Nucleic Acids Research</i> , 1997, pp. 3389-3402, Vol. 25, No. 17.	
	R2	ASTUA-MONGE, G. <i>et al.</i> "Resistance of Tomato and Pepper to T3 Strains of <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> Is Specified by a Plant-Inducible Avirulence Gene", <i>Molecular Plant-Microbe Interactions</i> , 2000, pp. 911-921, Vol. 13, No. 9.	
	R3	AUGUST, P. R. <i>et al.</i> "Biosynthesis of the Ansamycin Antibiotic Rifamycin: Deductions from the Molecular Analysis of the <i>rif</i> Biosynthetic Gene Cluster of <i>Amycolatopsis mediterranei</i> S699", <i>Chemistry &amp; Biology</i> , February 1998, pp. 69-79, Vol. 5.	
	R4	BARDWELL, J. C. A. <i>et al.</i> "Ancient Heat Shock Gene is Dispensable", <i>Journal of Bacteriology</i> , July 1988, pp. 2977-2983, Vol. 170, No. 7.	
	R5	BIRCH, R. G. "Xanthomonas albilineans and the Antipathogenesis Approach to Disease Control", <i>Molecular Plant Pathology</i> , 2001, pp. 1-11, Vol. 2, No. 1.	
	R6	BORKOVICH, K. A. <i>et al.</i> "hsp82 Is an Essential Protein that is Required in Higher Concentrations for Growth of Cells at Higher Temperatures", <i>Molecular and Cellular Biology</i> , September 1989, pp. 3919-3930, Vol. 9, No. 9.	
	R7	CANE, D. E. <i>et al.</i> "The Parallel and Convergent Universes of Polyketide Synthases and Nonribosomal Peptide Synthetases", <i>Chemistry &amp; Biology</i> , December 1999, pp. R319-R325, Vol. 6.	
	R8	CHALLIS, G. L. <i>et al.</i> "Predictive, Structure-Based Model of Amino Acid Recognition by Nonribosomal Peptide Synthetase Adenylation Domains", <i>Chemistry &amp; Biology</i> , 2000, pp. 211-224, Vol. 7.	
	R9	CONTI, E. <i>et al.</i> "Structural Basis for the Activation of Phenylalanine in the Non-Ribosomal Biosynthesis of gramicidin S", <i>The EMBO Journal</i> , 1997, pp. 4174-4183, Vol. 16, No. 14.	
	R10	DE FEYTER, R. <i>et al.</i> "Use of Cloned DNA Methylase Genes to Increase the Frequency of Transfer of Foreign Genes into <i>Xanthomonas campestris</i> pv. <i>malvacearum</i> ", <i>Journal of Bacteriology</i> , October 1991, pp. 6421-6427, Vol. 173, No. 20.	
	R11	VON DÖHREN, H. <i>et al.</i> "The Nonribosomal Code", <i>Chemistry &amp; Biology</i> , October 1999, pp. R273-R279, Vol. 6.	
	R12	DU, L. <i>et al.</i> "The Biosynthetic Gene Cluster for the Antitumor Drug Bleomycin from <i>Streptomyces verticillus</i> ATCC15003 Supporting Functional Interactions Between Nonribosomal Peptide Synthetases and a Polyketide Synthase", <i>Chemistry &amp; Biology</i> , 2000, pp. 623-642, Vol. 7.	

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	R13	DUITMAN, E. H. <i>et al.</i> "The Mycosubtilin Synthetase of <i>Bacillus subtilis</i> ATCC6633: A Multifunctional Hybrid Between a Peptide Synthetase, an Amino Transferase, and a Fatty Acid Synthase", <i>PNAS</i> , November 9, 1999, pp. 13294-13299, Vol. 96, No. 23.	
	R14	DEL CARMEN GARRIDO, M. <i>et al.</i> "The Export of the DNA Replication Inhibitor Microcin B17 Provides Immunity for the Host Cell", <i>The EMBO Journal</i> , 1988, pp. 1853-1862, Vol. 7, No. 6.	
	R15	GEHRING, A. M. <i>et al.</i> "Iron Acquisition in Plague: Modular Logic in Enzymatic Biogenesis of Yersiniabactin by <i>Yersinia pestis</i> ", <i>Chemistry &amp; Biology</i> , October 1998, pp. 573-586, Vol. 5.	
	R16	GUENZI, E. <i>et al.</i> "Characterization of the Syringomycin Synthetase Gene Cluster", <i>The Journal of Biological Chemistry</i> , December 4, 1998, pp. 32857-32863, Vol. 273, No. 49.	
	R17	JAKOB, U. <i>et al.</i> "Transient Interaction of Hsp90 with Early Unfolding Intermediates of Citrate Synthase", <i>The Journal of Biological Chemistry</i> , March 31, 1995, pp. 7288-7294, Vol. 270, No. 13.	
	R18	KONZ, D. <i>et al.</i> "The Bacitracin Biosynthesis Operon of <i>Bacillus licheniformis</i> ATCC 10716: Molecular Characterization of Three Multi-Modular Peptide Synthetases", <i>Chemistry &amp; Biology</i> , December 1997, pp. 927-937, Vol. 4.	
	R19	LEONG, S. A. <i>et al.</i> "Heme Biosynthesis in <i>Rhizobium</i> : Identification of a Cloned Gene Coding for $\delta$ -Aminolevulinic Acid Synthetase From <i>Rhizobium meliloti</i> ", <i>The Journal of Biological Chemistry</i> , August 10, 1982, pp. 8724-8730, Vol. 257, No. 15.	
	R20	LIU, J. <i>et al.</i> "Nucleotide Sequence of a Cluster of <i>Escherichia coli</i> Enterobactin Biosynthesis Genes: Identification of <i>entA</i> and Purification of Its Product 2,3-Dihydro-2,3-Dihydroxybenzoate Dehydrogenase", <i>Journal of Bacteriology</i> , February 1989, pp. 791-798, Vol. 171, No. 2.	
	R21	MCDANIEL, R. <i>et al.</i> "Multiple Genetic Modifications of the Erythromycin Polyketide Synthase to Produce a Library of Novel "Unnatural" Natural Products", <i>Proc. Natl. Acad. Sci. USA</i> , March 1999, pp. 1846-1851, Vol. 96.	
	R22	MOHAMED, M. E.-S. <i>et al.</i> "Reinvestigation of a New Type of Aerobic Benzoate Metabolism in the Proteobacterium <i>Azoarcus evansi</i> ", <i>Journal of Bacteriology</i> , March 2001, pp.1899-1908, Vol. 183, No. 6.	
	R23	PAITAN, Y. <i>et al.</i> "Genetic and Functional Analysis of Genes Required for the Post-Modification of the Polyketide Antibiotic TA of <i>Myxococcus xanthus</i> ", <i>Microbiology</i> , 1999, pp. 3059-3067, Vol. 145.	
	R24	QUADRI, L. E.N. <i>et al.</i> "Identification of a <i>Mycobacterium tuberculosis</i> Gene Cluster Encoding the Biosynthetic Enzymes for Assembly of the Virulence-Confering Siderophore Mycobactin", <i>Chemistry &amp; Biology</i> , November 1998, pp. 631-645, Vol. 5.	

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	R25	MOHAMED, M. E.-S. <i>et al.</i> "Reinvestigation of a New Type of Aerobic Benzoate Metabolism in the Proteobacterium <i>Azoarcus evansii</i> ", <i>Journal of Bacteriology</i> , March 2001, pp. 1899-1908, Vol. 183, No. 6.		
	R26	SIEBERT, M. <i>et al.</i> "Ubiquinone Biosynthesis: Cloning of the Genes Coding for Chorismate Pyruvate-Lyase and 4-hydroxybenzoate Octaprenyl Transferase from <i>Escherichia coli</i> ", <i>FEBS</i> , August 1992, pp. 347-350, Vol. 307, No. 3.		
	R27	STACHELHAUS, T. <i>et al.</i> "The Specificity-Confering Code of Adenylation Domains in Nonribosomal Peptide Synthetases", <i>Chemistry &amp; Biology</i> , August 1999, pp. 493-505, Vol. 6.		
	R28	STASKAWICZ, B. <i>et al.</i> "Molecular Characterization of Cloned Avirulence Genes from Race 0 and Race 1 of <i>Pseudomonas syringae</i> pv. <i>glycinea</i> ", <i>Journal of Bacteriology</i> , December 1987, pp. 5789-5794, Vol. 169, No. 12.		
	R29	THOMAS, J. G. <i>et al.</i> "ClpB and HtpG Facilitate <i>de novo</i> Protein Folding in Stressed <i>Escherichia coli</i> Cells", <i>Molecular Microbiology</i> , 2000, pp. 1360-1370, Vol. 36, No. 6.		
	R30	VALDEZ, F. <i>et al.</i> "The <i>Streptomyces coelicolor</i> A3(2) <i>lipAR</i> Operon Encodes an Extracellular Lipase and a New Type of Transcriptional Regulator", <i>Microbiology</i> , 1999, pp. 2365-2374, Vol. 145.		
	R31	WALL, M. K. <i>et al.</i> "Genes for Albicidin Biosynthesis and Resistance Span at Least 69 kb in the Genome of <i>Xanthomonas albilineans</i> ", <i>Letters in Applied Microbiology</i> , 1997, pp. 256-260, Vol. 24.		
	R32	YU, J.-H. <i>et al.</i> "Sterigmatocystin Biosynthesis in <i>Aspergillus nidulans</i> Requires a Novel Type I Polyketide Synthase", <i>Journal of Bacteriology</i> , August 1995, pp. 4792-4800, Vol. 177, No. 16.		
	R33	YU, S. <i>et al.</i> "Analysis of the Exochelin Locus in <i>Mycobacterium smegmatis</i> : Biosynthesis Genes Have Homology with Genes of the Peptide Synthetase Family", <i>Journal of Bacteriology</i> , September 1998, pp. 4676-4685, Vol. 180, No. 17.		
	R34	ZHANG, L. <i>et al.</i> "The Gene for Albicidin Detoxification from <i>Pantoea dispersa</i> Encodes an Esterase and Attenuates Pathogenicity of <i>Xanthomonas albilineans</i> to Sugarcane", <i>Proc. Natl. Acad. Sci. USA</i> , September 1997, pp. 9984-9989, Vol. 94.		
	R35	ZHANG, J.-H. <i>et al.</i> "Analysis of the <i>syrB</i> and <i>syrC</i> Genes of <i>Pseudomonas syringae</i> pv. <i>syringae</i> Indicates that Syringomycin is Synthesized by a Thiotemplate Mechanism", <i>Journal of Bacteriology</i> , July 1995, pp. 4009-4020, Vol. 177, No. 14.		
	R36	ZHANG, J.-H. <i>et al.</i> "Analysis of the <i>syrP</i> Gene, Which Regulates Syringomycin Synthesis by <i>Pseudomonas syringae</i> pv. <i>syringae</i> ", <i>Applied and Environmental Microbiology</i> , July 1997, pp. 2771-2778, Vol. 63, No. 7.		

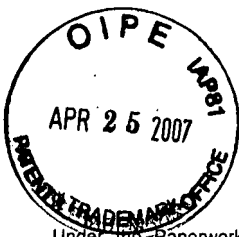
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	R37	ROYER, M. <i>et al.</i> "Albicidin Pathotoxin Produced by <i>Xanthomonas albilineans</i> is Encoded by Three Large PKS and NRPS Genes Present in a Gene Cluster Also Containing Several Putative Modifying, Regulatory, and Resistance Genes", <i>The American Phytopathological Society</i> , 2004, pp. 414-427, Vol. 17, No. 4.		
	R38	HUANG, G. <i>et al.</i> "Analysis of the Genes Flanking <i>xabB</i> : A Methyltransferase Gene is Involved in Albicidin Biosynthesis in <i>Xanthomonas albilineans</i> ", <i>Gene</i> , 2000, pp. 327-333, Vol. 255.		
	R39	HUANG, G. <i>et al.</i> "Albicidin Antibiotic and Phytotoxin Biosynthesis in <i>Xanthomonas albilineans</i> Requires a Phosphopantetheinyl Transferase Gene", <i>Gene</i> , 2000, pp. 193-199, Vol. 258.		
	R40	HUANG, G. <i>et al.</i> "A Multifunctional Polyketide-Peptide Synthetase Essential for Albicidin Biosynthesis in <i>Xanthomonas albilineans</i> ", <i>Microbiology</i> , 2001, pp. 631-642, Vol. 142.		
	R41	ROTT, P. C. <i>et al.</i> "At Least Two Separate Gene Clusters Are Involved in Albicidin Production by <i>Xanthomonas albilineans</i> ", <i>Journal of Bacteriology</i> , August 1996, pp. 4590-4596, Vol. 178, No. 15.		
	R42	GenBank Accession No. AF403709, BOSTOCK, J. M. <i>et al.</i> "A Gene from <i>Xanthomonas albilineans</i> Confers High-Level Albicidin Resistance in <i>Escherichia coli</i> ", unpublished, July 26, 2001.		
	R43			
	R44			
	R45			
	R46			
	R47			
	R48			

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